

X-15984.ST25.txt  
SEQUENCE LISTING

<110> Eli Lilly and Company

<120> GLP-1 Analog Fusion Proteins

<130> X-15984

<150> 60/477880

<151> 2003-06-12

<160> 21

<170> PatentIn version 3.3

<210> 1

<211> 31

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<220>

<221> MISC\_FEATURE

<222> (2)..(2)

<223> Xaa at position 2 is Gly or Val

<400> 1

His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly Gly  
20 25 30

<210> 2

<211> 31

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<220>

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<222> (2)..(2)

<223> Xaa at position 2 is Gly or Val

<400> 2

His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Lys Asn Gly Gly Gly  
20 25 30

<210> 3

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<211> 31  
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 <222> (2)..(2)  
 <223> Xaa at position 2 is Gly or val

<400> 3

His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly Pro  
 20 25 30

<210> 4  
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<400> 4

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Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Lys Asn Gly Gly Pro  
 20 25 30

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 <222> (2)..(2)  
 <223> Xaa at position 2 is Gly or val

<400> 5

His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu

1	5	X-15984.ST25.txt	15
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Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly  
20 25 30

<210>	6
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**<220>**  
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<223> Xaa at position 2 is Gly or val
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**<400> 6**

His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Lys Asn Gly Gly  
20 25 30

<210>	7
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**<220>**  
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<222> (16)..(16)
<223> Xaa at position 16 is Pro or Glu
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<220>
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<222> (17)..(17)
<223> Xaa at position 17 is Phe, Val, or Ala
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<220>
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<222> (18)..(18)
<223> Xaa at position 18 is Leu, Glu, or Ala
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<222> (80)..(80)
<223> Xaa at position 80 is Asn or Ala
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<222> (230)..(230)
<223> Xaa at position 230 is Lys or is absent
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Ala Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Xaa  
 1 5 10 15  
 Xaa Xaa Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp  
 20 25 30  
 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp  
 35 40 45  
 Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly  
 50 55 60  
 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Xaa  
 65 70 75 80  
 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp  
 85 90 95  
 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro  
 100 105 110  
 Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu  
 115 120 125  
 Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn  
 130 135 140  
 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile  
 145 150 155 160  
 Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr  
 165 170 175  
 Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg  
 180 185 190  
 Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys  
 195 200 205  
 Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu  
 210 215 220  
 Ser Leu Ser Leu Gly Xaa  
 225 230

&lt;210&gt; 8

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<211> 15  
 <212> PRT  
 <213> Artificial

<220>  
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<400> 8

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<210> 9  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 9

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
 20 25 30

<210> 10  
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<220>  
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<400> 10

His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly Gly  
 20 25 30

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 35 40 45

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Glu Ser  
 50 55 60

Lys Tyr Gly Pro Pro Cys Pro  
 65 70

<210> 11  
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<220>

<223> Synthetic Construct X-15984.ST25.txt

<400> 11

Trp Leu Val Lys Gly Arg Gly Gly Gly  
1 5

<210> 12

<211> 7

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<400> 12

Trp Leu Val Lys Gly Gly Gly  
1 5

<210> 13

<211> 7

<212> PRT

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<220>

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<400> 13

Trp Leu Lys Asn Gly Gly Gly  
1 5

<210> 14

<211> 7

<212> PRT

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<400> 14

Trp Leu Val Lys Gly Gly Pro  
1 5

<210> 15

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 15

Trp Leu Lys Asn Gly Gly Pro  
1 5

X-15984.ST25.txt

<210> 16  
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<220>  
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<400> 16

Trp Leu Val Lys Gly Gly  
 1 5

<210> 17  
 <211> 6  
 <212> PRT  
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<220>  
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<400> 17

Trp Leu Lys Asn Gly Gly  
 1 5

<210> 18  
 <211> 6  
 <212> PRT  
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<400> 18

Pro Pro Cys Pro Ser Cys  
 1 5

<210> 19  
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<400> 19

Gly ser Gly Gly Gly Gly ser Gly Gly Gly Gly ser Gly Gly Gly Gly  
 1 5 10 15

ser Gly Gly Gly Gly Ser  
 20

<210> 20  
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 <212> DNA  
 <213> Homo sapiens

<400> 20  
 cacggcgagg gcaccttcac ctccgacgtg tcctcctatc tcgaggagca ggccgccaag

60

## X-15984.ST25.txt

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gagggtccagt tcaactggta cgtggatggc gtggaggtgc ataatgcca gacaaagccg 360
cgggaggagc agttcaacag cacgtaccgt gtggtcagcg tcctcaccgt cctgcaccag 420
gactggctga acggcaagga gtacaagtgc aaggtctcca acaaaggcct cccgtcctcc 480
atcgagaaaa ccatctccaa agccaaaggg cagccccgag agccacaggt gtacaccctg 540
cccccatccc aggaggagat gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc 600
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aagaccacgc ctcccgctgt ggactccgac ggctccttct tcctctacag caggctaacc 720
gtggacaaga gcagggtggca ggaggggaat gtcttctcat gctccgtgat gcatgaggct 780
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<210> 21  
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<220>  
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<400> 21

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25 30